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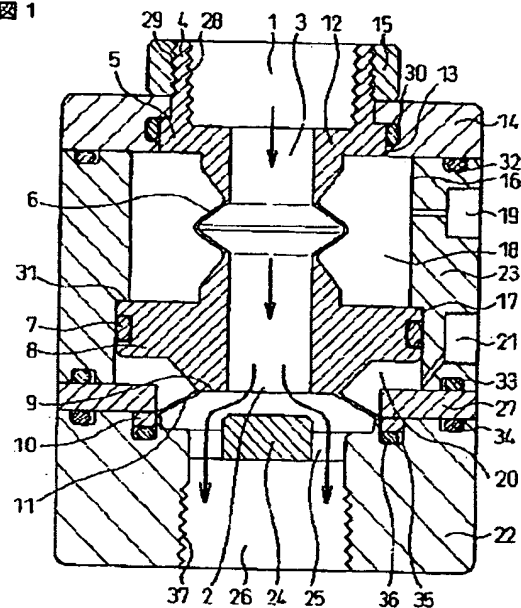
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TITLE : AUTOMATIC VALVE

図 1



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|-----------|----------------|----------------|
| 1...流入口 | 11...薄膜部 | 21...第2作動流体流通口 |
| 2...流出口 | 12...筒状部材 | 22...弁座体 |
| 3...直線流路 | 13...段差部 | 23...本体 |
| 4...螺合部 | 14...蓋体 | 24...弁座 |
| 5...小径部 | 15...キャップナット | 25...流路 |
| 6...ベローズ部 | 16...収容部 | 26...流出開口 |
| 7...シール材 | 17...段差部 | 27...支持体 |
| 8...大径部 | 18...第1環状空間 | 35...嵌合溝 |
| 9...弁体部 | 19...第1作動流体流通口 | |
| 10...嵌合突部 | 20...第2環状空間 | |

ABSTRACT : PROBLEM TO BE SOLVED: To provide an automatic valve requiring no wide piping space, and having a compact whole body, a high Cv value, and no liquid sump.

SOLUTION: This automatic valve is provided with a cylinder member 12 which is formed with a linear passage 3 having an inlet 1 and outlet 2 in its inside, and integrally formed with a threaded engagement part 4 having a nut 15 in the axial direction of the passage in the outer circumference, a small-diameter flange 5, a bellows 6, and a large-diameter flange 8, a valve element 9 formed in the circumferential edge of the outlet 2, and a thin film part 11 having a fitting projection 10 in its circumferential edge; a lid body 14 having a stepped part 13 for fitting the small-diameter flange 5; a body 23 which has a first annular space 18 fixed to the lid body 14 and storing the bellows 6, a first operating fluid flowing port 19 communicated with the annular space 18, a second annular space 20 formed of the large-diameter flange 8 and the thin film 11, and a second operating fluid flowing port 21 connected to the annular space 20; and a valve seat body 22 clamping the fitting projection 10 of the thin film 11 together with the body 23 and having a projecting valve seat 24 in the center, a plurality of passages 25, and an outlet 26.

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